

APPLICANT(S): TRIBELSKY, Zamir et al.
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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1. (Currently Amended) A method ~~Method~~ for coupling energy in order to change a mechanical and/or chemical property of target molecules or microorganisms, the method comprising:

providing light energy having predetermined parameters projected by at least one energy source;

providing a stream of liquid having a predetermined flow rate, wherein the liquid is streaming within a quartz pipe surrounded by air;

directing said stream of liquid to a contact with a destination site; and

directing said energy along a trajectory of said stream of liquid to affect ~~maintaining said stream on said destination site for a period and under conditions sufficient for altering at least one chemical or mechanical property of at least 50 percent of particular~~ target molecules or ~~of particular~~ microorganism species located between the energy source and the destination site.

2. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1 comprising periodically replacing a plurality of destination sites opposite the stream of the liquid while maintaining the liquid stream in contact with each destination site ~~for substantially said period and substantially under said conditions.~~

3. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1 comprising moving the stream of the liquid along a plurality of destination sites while maintaining the stream of liquid in contact with each destination site ~~for substantially said period and substantially under said conditions.~~

4. (Currently Amended) ~~Method~~ The method according to claim 1, wherein the destination site is an item or substance suspected as afflicted by noxious biological or chemical species.

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5. (Currently Amended) ~~Method~~ The method according to claim 1, wherein the destination site comprises a site selected from the group consisting of ~~pre-filled~~ pre-filled containers, ~~filled~~ filled containers, surfaces, humans, mammals, vehicles, medical instrumentation, conveyors, conveyor belts, foods, fruits, vegetables, and salads.

6. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, ~~wherein the energy further comprising providing~~ comprises sonic vibration energy in the range of between 1 Hz and 1 GHz.

7. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the ~~energy comprises a light energy~~ comprises radiation having a wavelength of between 1nm and 1,000nm.

8. (Currently Amended) ~~Method~~ The method according to claim 1, wherein said at least one energy source comprises a laser.

9. (Currently Amended) ~~Method~~ The method according to claim 1, wherein said at least one energy source comprises a pulsed laser selected from the group consisting of a 266nm laser, and a 355nm laser.

10. (Currently Amended) ~~Method~~ The method according to claim 1, wherein the predetermined parameters comprise at least one parameter selected from the group consisting of power, wavelength, duty cycle and repetition rate.

11. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy comprises light radiation waves and sonic vibration waves.

12. -13. (Cancelled)

14. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy comprises sonic vibration waves ~~in a frequency and amplitude useful for removing particles or microorganisms from a destination surface to which they are being attached.~~

15. (Cancelled)

16. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the light energy comprises ~~sonic vibration waves in a frequency and amplitude useful for cracking or disintegrating particles or microorganisms between the energy source and the destination site or for removing target particles or microorganisms from a destination surface, and wherein the energy further comprises UV light radiation useful for damaging microorganisms located between the energy~~ source and the destination site.

17. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy is pulsed in pulses having amplitude of between 1 watt/cm² and 1Gwat/cm², time duration of between 1atosec and 1 sec, and frequency of between 1Hz and 1Ghz.

18. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy is in a CW (continuous waves) form.

19. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy is in a form of pulsed waves combined with continuous waves.

20. (Cancelled)

21. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy is in a form combining pulsed waves from at least two energy sources.

22. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy is in a form combining pulsed waves from at least two energy sources differing from each other in their wavelength, PRT, or power level.

23. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy is in a form combining pulsed waves from at least two energy sources, wherein said energy sources are synchronized to emit energy pulses in correlation.

24. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy is in a form combining pulsed waves from at least two energy sources, wherein a first energy source is pulsed 266nm laser, another energy source is pulsed 355nm laser, the pulses of which follows within 150nsec the pulses of said first energy source.

25. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, further comprising monitoring at least a part of the waves of energy on at least one location between the energy source and the destination site.

26. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, further comprising monitoring at least a part of the waves of energy on at least one location between the energy source and the destination site and using the monitored data for controlling the amplitude, frequency, repetition rate or duration of the energy output of the at least one energy source.

27. (Cancelled)

28. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the ~~energy is coupled for disinfecting~~ destination site is disinfected.

29. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the ~~energy is coupled for cleaning~~ destination site is cleaned.

30. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein ~~the energy is coupled for~~ sediments are disintegrated ~~disintegrating~~ sediments.

31. (Currently Amended) ~~Method for coupling energy~~ The method according to claim 1, wherein the energy ~~is coupled for triggering~~ triggers a chemical reaction.

32. -34. (Cancelled)